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SQ Sequence 4 AA;

Query Match 100.0%; Score 21; DB 3; Length 4;  
 Best Local Similarity 100.0%; Pred. No. 2e+06;  
 Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 DEVD 4

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Db 1 DEVD 4

## RESULT 25

AAB10870

ID AAB10870 standard; peptide; 4 AA.

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AC AAB10870;

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DT 30-JAN-2001 (first entry)

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DE Aminocoumarin-DEVD peptide.

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KW Aminocoumarin; caspase activity; chemical sensitivity; apoptosis;

KW antitumor; chemotherapy; cancer; treatment; tumor.

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OS Synthetic.

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FH Key Location/Qualifiers

FT Modified-site 1

FT /note= "modified by aminocoumarin"

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PN WO200054049-A2.

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PD 14-SEP-2000.

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PF 13-MAR-2000; 2000WO-EP002174.

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PR 12-MAR-1999; 99DE-01010956.

PR 30-APR-1999; 99EP-00108495.

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PA (EVOT-) EVOTEC ANALYTICAL SYSTEMS GMBH.

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PI Meyer-Almes FJ;

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DR WPI; 2000-587456/55.

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PT Determining sensitivity of cells to apoptotic agents, useful e.g. for

PT selecting compounds for treating cancer, by measurement of accumulated

PT caspase activity.

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PS Example 1; Page 16; 29pp; German.

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CC This invention describes a novel method for determining the chemical  
 CC sensitivity of cells towards at least one substance (I) which comprises  
 CC measuring (I)-induced apoptosis. The cells are incubated with (I), and  
 CC then destroyed. Without preliminary separation of cells, the cumulative  
 CC caspase activity (CA) is determined as a measure of apoptosis. The  
 CC products of the invention have antitumor activity. The method is used for  
 CC staging tumors, for identifying new chemotherapeutic agents for treating  
 CC cancer, and for optimizing treatment of tumors in individual patients.  
 CC Measuring cumulative CA allows specific detection of apoptosis (necrotic  
 CC cells are not detected) and requires only a single measurement. The  
 CC method is suitable for automation (using a standard reader for enzyme-  
 CC linked immunosorbent assay) and miniaturization, requiring only 100-1000  
 CC cells per test, allowing parallel processing of many samples from e.g. a  
 CC fine needle biopsy specimen. Apoptosis is a very early indicator of the  
 CC activity of cytostatics, so the test is significantly quicker than e.g.  
 CC the MTT test which requires a 4-day incubation

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